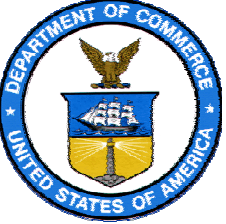


DRO Technology Session

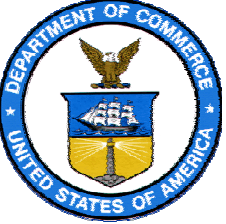
December 7, 2004

Frank Eng, Computer Sciences Corporation



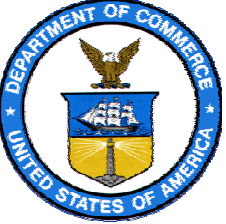
Session Overview

- **Technology for: 1) DRO service providers (e.g., meteorological & space agencies), 2) DRO users, and 3) DRO industry (e.g., vendors)**
- **Evolving DRO requirements continue to put greater demands on technology**
- **Current and “near term” technology responses to evolving DRO requirements, with a focus on DRO receivers**



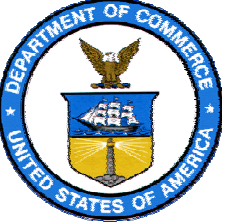
Session Format

- 1. “Leading edge” Technology Presentations**
- 2. Technology Panel Discussion**
 - Requirements
 - Technological alternatives
 - Technology forecasts
- 3. Live Technology Demonstration**



Driving Requirements

- **Band (e.g., VHF, L, X, C , Ku bands)**
- **Data rate**
- **G/T**
- **Tracking**
- **Reliability**
- **Data format**
- **Product generation and management**
- ***Flexibility and transition***



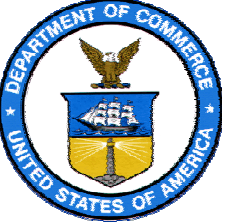
Receiver Technical Elements

- 1. Satellite tracking and signal acquisition**
- 2. RF/IF processing**
- 3. Demodulation and decoders**
- 4. Ingesting**
- 5. Product generation management**



Technology Discriminators

- 1. Functionality and Performance**
- 2. Cost, cost and more cost (LCC)**
- 3. Flexibility**



Technology Summary

- **Requirements in transition**
 - **Environments**
 - **Systems and services**
 - **Users**
- **Technology in transition**
- **Industry technology response**

